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Oct 8, 1992

DERWENT-ACC-NO: 1992-385398

DERWENT-WEEK: 199247

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TITLE: Anti-periodontal disease agents inhibiting proliferation of Bacteroides gingivitis - obtd. by soaking soybean(s) in water to extract iso:flavone glycoside (s) including genistein glycoside

PATENT-ASSIGNEE:

ASSIGNEE

CODE

KIKKOMAN CORP

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PRIORITY-DATA: 1991JP-0070389 (March 12, 1991)

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PATENT-FAMILY:

PUB-NO

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MAIN-IPC



JP 04283518 A

October 8, 1992

003

A61K038/78

APPLICATION-DATA:

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DESCRIPTOR

JP 04283518A

March 12, 1991

1991JP-0070389

INT-CL (IPC): A61K 38/78

ABSTRACTED-PUB-NO: JP 04283518A

BASIC-ABSTRACT:

Anti-periodontal disease agents contain genistein.

Genistein is prepd. by soaking peeled soybeans in water of pH 8-11 at 50-60 deg.C to extract isoflavon glycosides including genistein glucoside. This extract is hydrolysed with enzyme or acid and the hydrolysate is filtered through ultrafiltration membrane to give a fraction contg. isoflavones. Crude genistein may be purified by adsorption-elution process by use of proper resins or by extn. with ether. Genistein obtained can be mixed in tooth paste, gargle, chewing gum, or troche.

USE/ADVANTAGE - The agents inhibit the proliferation of B. gingivalis which is adherent bacteria in the bronchial and intestinal tracts and causes varied periodontal disorders including periodontosis. Genistein is the aglucon of genistein and other isoflavon glucosides which can be easily obtd. and is of low toxicity. The glucosides are readily gained from plants such as soybeans, e.g. by means of extn..

In an example, growth of B. gingivalis was completely inhibited with 5-100 ppm of genistein after 48-hrs. incubation at 37 deg.C, whereas growth was obtd. with 5-100 ppm daidzein

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: ANTI PERIODONTAL DISEASE AGENT INHIBIT PROLIFERATION BACTEROIDES
GINGIVAL OBTAIN SOAK SOY WATER EXTRACT ISO FLAVONE GLYCOSIDE GLYCOSIDE

DERWENT-CLASS: B05

CPI-CODES: B06-A01; B12-A01; B12-L03;

CHEMICAL-CODES:

Chemical Indexing M2 *01*
Fragmentation Code
D013 D023 D120 G013 G100 H4 H403 H443 H8 J5
J521 M113 M280 M320 M412 M511 M520 M531 M540 M781
M903 M904 P220 P912 P913 Q261
Specfic Compounds
11605U
Registry Numbers
92407

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1992-171041

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